

I claim:

1. A container variability system for use with a hook-lift hoist mounted onto a wheeled chassis having four wheels and including at least one hydraulic cylinder for loading a container onto said chassis and for tilting said container to a raised off-loading position, wherein said hydraulic cylinder is responsible for the horizontal movement of said container on the main frame of said hoist through a telescopic jib member, wherein said system comprises a lever actuated switch for preventing further extension of said cylinder, wherein said switch is activated by a strike from a tab mounted off of the longsill of said container.

2. A container variability system as defined in claim 1, wherein said system is mounted on either side of said main frame of said hoist, and wherein said tab is mounted on the same side of the longsill of said container as said system.

3. A container variability system as defined in claim 1, wherein said tab is made of metal or other hard, resistant material.

4. A container variability system as defined in claim 1, wherein said tab is mounted off of the longsill of said container in a suitable position to strike said lever switch when said container slides forwardly to said lever switch, and said tab is positioned such that adequate length of said container is engaged in said hoist through hoist body locks for safe transport and that enough overhang of said container past rear of said hoist is preserved for effective dumping.

5. The hoist body locks of claim 4, wherein said body locks are positioned close to the rear end of said hoist on either side of said main frame as a safety measure.

6. A container variability system as defined in claim 1, wherein said system allows said containers shorter than a minimum specified length to be transported and its payload dumped effectively without damaging the rear of said hoist.

7. A container variability system as defined in claim 1, wherein said system allows said containers longer than or equal to said minimum specified length to be transported and its payload dumped effectively without damaging the rear of said hoist.

5 8. A container variability system according to claim 1, wherein said hydraulic cylinder drives a telescopic jib member to slid forward said container on said hoist, wherein the extension of said hydraulic cylinder is dependent on pressurized hydraulic oil, wherein the depletion of said hydraulic oil halts the extension of said cylinder, wherein the supply of said hydraulic oil is controlled by said lever actuated switch comprising a mechanical hydraulic  
10 valve and a lever with an eccentric cam.

9. A container variability system according to claim 8, wherein said mechanical valve is actuated when a spool on said valve is depressed by said eccentric cam when said lever moves counter clockwise by the strike from said tab mounted on the long sill of said  
15 container, wherein the actuated valve allows said hydraulic oil to flow into a hydraulic tank and bypass said extension circuit of said cylinder.

10. A container variability system according to claim 8, wherein said lever is held upright by an extension spring which allows said counter clockwise movement of said lever.